

Abstract

Rotary slide valve for power-assisted steering systems of motor vehicles

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A rotary slide valve (1) for power-assisted steering systems of motor vehicles contains a rotary slide (2) which is connected fixedly in terms of rotation to a valve input member (4). The control bush (3) is connected fixedly in terms of rotation to a valve output member (5).

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The two valve elements are arranged so as to be movable coaxially one in the other and are rotatable relative to one another at most by the amount of the rotary travel of a backlash coupling. The rotary slide (2) has outer and the control bush inner longitudinal control grooves (6, 7) which cooperate with one another in order to control a pressure medium to and from two working spaces of a servomotor.

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The rotary slide (2) is connected to the valve output member (5) via a torsion-bar spring (9). Production-related tolerances which may lead to undesirable effects in driving behavior are compensated by means of a connecting element (10).

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Figure 1